

Exhibit C

Blast SEQ ID NO:1 versus human genomic



MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.masked.fa
44,521 sequences; 200,768,834,160 total letters

Query= LEX161seqid1
(2115 letters)

Sequences producing significant alignments:	Score (bits)	E
Value		

AC016643.6.1.179969	734	0.0
AC008958.7.1.109526	520	e-
144		

>AC016643.6.1.179969
Length = 179969

Score = 734 bits (370), Expect = 0.0
Identities = 370/370 (100%)
Strand = Plus / Plus

Query: 957 agatgatttaagccagaagttaaaaaccctgggtgaagcagaacgagagttatggaa
1016 |||||||
Sbjct: 60550 agatgatttaagccagaagttaaaaaccctgggtgaagcagaacgagagttatggaa
60609 |||||||

Query: 1017 tttgaagaaaaaggaatgcaaagacagggtttgaatatgatggaaaatcaatgcctg
1076 |||||||
Sbjct: 60610 tttgaagaaaaaggaatgcaaagacagggtttgaatatgatggaaaatcaatgcctg
60669 |||||||

Query: 1077 ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
1136 |||||||
Sbjct: 60670 ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
60729 |||||||

Query: 1137 cctcaaggaatacttcccaattgaggtggtcactgaaggcttgcataacacctaccagga
1196 |||||||
Sbjct: 60730 cctcaaggaatacttcccaattgaggtggtcactgaaggcttgcataacacctaccagga
60789 |||||||

Query: 1197 gttgttggactttcattgaacaaatgacagatgctcatgttggacaaggatgtac
1256 |||||||

Sbjct: 60790 gttgttggactttcattgaacaaatgacagatgctcatgttggacaaggatgtac
60849 |||||||

Query: 1257 actttatactgtgaaggataaagctacaggagaagtattggacagttctattggacct
1316 |||||||

Sbjct: 60850 actttatactgtgaaggataaagctacaggagaagtattggacagttctattggacct
60909 |||||||

Query: 1317 ctatccaagg 1326

|||||||

Sbjct: 60910 ctatccaagg 60919

Score = 520 bits (262), Expect = e-144

Identities = 262/262 (100%)

Strand = Plus / Plus

Query: 40 agagttgggttccaggatttactcagaatgacgttaggaagagaagtgtatgtctcct
99 |||||||

Sbjct: 30994 agagttgggttccaggatttactcagaatgacgttaggaagagaagtgtatgtctcct
31053 |||||||

Query: 100 cttcaggcaatgtctcctataactgtggctggcagaatgtttaagatggatcttc
159 |||||||

Sbjct: 31054 cttcaggcaatgtctcctataactgtggctggcagaatgtttaagatggatcttc
31113 |||||||

Query: 160 ccagagcaaattaaaacaagaactgaggagctattgtgcagaccaaacaggtgtacgat
219 |||||||

Sbjct: 31114 ccagagcaaattaaaacaagaactgaggagctattgtgcagaccaaacaggtgtacgat
31173 |||||||

Query: 220 gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
279 |||||||

Sbjct: 31174 gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
31233 |||||||

Query: 280 gatgtagaagtaaatatag 301

|||||||

Sbjct: 31234 gatgtagaagtaaatatag 31255

Score = 405 bits (204), Expect = e-110

Identities = 204/204 (100%)
Strand = Plus / Plus

Query: 1324 agggaaaggaaaatacatgcggcctgcttcggtctccagcctggctgccttcgcct
1383

Sbjct: 64886 agggaaaggaaaatacatcgccgtcttcggctccagcggctgccttcgt
64945

Query: 1384 gatggaagccggatgtatggcagtggctccctcggtgaacttctcacagccagtggca
1443

Sbjct: 64946 gatggaaagccggatgatggcagtggctgccctcggtgaacttctcacagccagtggca
65005

Query: 1444 ggtcgccctctcctgagacacgacgaggtgaggactttcatgagttggcac
1503

Sbjct: 65006 ggtcgccctctccctgagacacgacgaggtgaggactttcatgagttggcac
65065

Query: 1504 gtgatgcatcagattgtgcacag 1527

||||| ||||| ||||| ||||| ||||| |||||

Sbjct: 65066 gtgatgcatcagattgtgcacag 65089

Score = 379 bits (191), Expect = e-102

Identities = 191/191 (100%)

Strand = Plus / Plus

Query: 1526 agactgatttgacgatttagcggAACAAATgtggAAactgactttgttagaggtgcatt
1585

Sbjct: 81947 agactgatttgacgatttagcgaaacaatgtggaaactgacttttagaggtgcatt

Query: 1586 cgccaaatgcttggaaattgggtgtggacgtcgattccctccgaagattgtcaaaacatt

1645 Sbjct: 82007 cgcaaatgcttgggtgtggacgtcgattccctccgaagattgtcaaaacatt
82066

Query: 1646 ataaagatggaagccctattgcagacgatctgcttggaaaaacttgttgccttaggctgg
1705

1703 Sbjct: 82067 ataaagatggaagccattgcagacgatctgctgaaaaactgttgccttaggctgg
82126

Query: 1706 tcaaacacaggt 171

Sbjct: 82127 tcaacacaggt 82137

Score = 323 bits (163), Expect = 2e-85
Identities = 163/163 (100%)
Strand = Plus / Plus

Query: 661 ggtgcttcctgatgtttcattgacagtttagaaaagacagatgtgacaagtataaa
720 |||||||
Sbjct: 53694 ggtgcttcctgatgtttcattgacagtttagaaaagacagatgtgacaagtataaa
53753 |||||||

Query: 721 attacctaaaatccacactattccctgtcatgaagaaatgttcatccctgaaacc
780 |||||||
Sbjct: 53754 attacctaaaatccacactattccctgtcatgaagaaatgttcatccctgaaacc
53813 |||||||

Query: 781 agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 823
|||
Sbjct: 53814 agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 53856

Score = 301 bits (152), Expect = 8e-79
Identities = 152/152 (100%)
Strand = Plus / Plus

Query: 300 agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgac
359 |||||||
Sbjct: 35386 agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgac
35445 |||||||

Query: 360 agcaagtacagaagcagacaaaagactttctcgatattgagatgagcatgagagg
419 |||||||
Sbjct: 35446 agcaagtacagaagcagacaaaagactttctcgatattgagatgagcatgagagg
35505 |||||||

Query: 420 agatataattttagagaattgttcatggcagg 451
|||||
Sbjct: 35506 agatataattttagagaattgttcatggcagg 35537

Score = 280 bits (141), Expect = 3e-72
Identities = 141/141 (100%)
Strand = Plus / Plus

Query: 1842 aggcacaaaatgccagctacccggacattggcaggggatacgtggccatatta
1901 |||||||

Sbjct: 84687 aggcacaaatatgccagctaccttggacattggcaggggatacgatggccaatatta
84746

Query: 1902 tggatatcttggagtgaagtatttccatggatatgtttacagctgtttaaaaaaga
1961

Sbjct: 84747 tggatatcttggagtgaagtatttccatggatatgtttacagctgtttaaaaaaga
84806

Query: 1962 agggataatgaatccagaggt 1982

Sbjct: 84807 agggataatgaatccagaggt 84827

Score = 270 bits (136), Expect = 3e-69

Identities = 137/138 (99%)

Strand = Plus / Plus

Query: 821 agaaaaacaccataatttgcagcagctactcccactgcgaaccaagggtggccaaactac
880

Sbjct: 58207 agaaaaacaccataatttgcagcagctactcccactgcgaaccaagggtggccaaactac
58266

Query: 881 tcggttatagcacacatgctgacttcgtccttcaaatgaacactgcacaaagagcacaagcc
940

Sbjct: 58267 tcggttatagcacacatgctgacttcgtccttcaaatgaacactgcacaaagagcacaagcc
58326

Query: 941 gcgtaacagcyttctag 958

Sbjct: 58327 gcgtaacagccttctag 58344

Score = 268 bits (135), Expect = 1e-68

Identities = 136/137 (99%)

Strand = Plus / Plus

Query: 1979 aggttggaatgaaatacagaaacctaattcctgaaacctggggatctctggacggcatgg
2038

Sbjct: 95214 aggttggaatgaaatacagaaacctaattcctgaaacctggggatctctggacggcatgg
95273

Query: 2039 acatgctccacaatttcttggaaacgtgagccaaacaaaaagcgttcctaattgagtagag
2098

Sbjct: 95274 acatgctccacaatttcttggaaacgtgagccaaacaaaaagcgttcctaattgagtagag
95333

Query: 2099 gcctgc~~at~~gct~~c~~cg~~t~~ga 2115
Sbjct: 95334 gcctgc~~at~~gct~~c~~ccg~~t~~ga 95350

Score = 262 bits (132), Expect = 7e-67
Identities = 132/132 (100%)
Strand = Plus / Plus

Query: 1833 agctactccagg 1844
|||
Sbjct: 82589 agctactccagg 82600

Score = 222 bits (112), Expect = 6e-55
Identities = 116/117 (99%), Gaps = 1/117 (0%)
Strand = Plus / Plus

Query: 443 atttacagggaaacctgtgatctgggaagataaaaacctgaggccagacgatacttggaaa
502 |||||||
Sbjct: 49854 attt-caggaaacctgtgatctgggaagataaaaacctgaggccagacgatacttggaaa
49912

Query: 503 agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 559
Sbjct: 49913 agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg
49969

Score = 208 bits (105), Expect = 1e-50
Identities = 105/105 (100%)
Strand = Plus / Plus

Query: 619 aatgaggatgataccttccttgtatttccaaggctgaacttggt 663
 ||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 52673 aatgaggatgataccttccttgtatttccaaggctgaacttggt 52717

>AC008958.7.1.109526
Length = 109526

Score = 520 bits (262), Expect = e-144
Identities = 262/262 (100%)
Strand = Plus / Minus

Query: 100 ctccaggcaatgtcttcctatactgtggctggcagaaatgtttaagatgggatcttca
159 |||||||
Sbjct: 24139 ctccaggcaatgtcttcctatactgtggctggcagaaatgtttaagatgggatcttca
24080

Query: 160 ccagagcaaattaaaacaagaactgaggagctattgtcagaccaaacagggtgtacat
219 |||||||
Sbjct: 24079 ccagagcaaattaaaacaagaactgaggagctattgtcagaccaaacagggtgtacat
24020

Query: 220 gctgttggaaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
279 |||||||
Sbjct: 24019 gctgttggaaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
23960

Score = 323 bits (163), Expect = 2e-85
Identities = 163/163 (100%)
Strand = Plus / Minus

Query: 721 attaccttaaaatatccacactattccctgtcatgaagaaatgttgtatccctgaaacc
780

Sbjct: 1444 attaccttaaaatatccacactattccctgtcatgaagaaatgttatccctgaaacc
1385

Query: 781 agaagaaggatggaaatggctttatacaagggtgcaaagagg 823

11. *What is the primary purpose of the following statement?*

Sbjct: 1384 agaagaaggatggaaatggctttataatacacaaggtgcaaaagagg 1342

Score = 301 bits (152), Expect = 8e-79

Identities = 152/152 (100%)

Strand = Plus / Minus

Query: 300 agtgggaaaggaccatgctagactttcccccagcatgtatcctctgacaaagaagtacgagc
359

300

Sbjct: 19806 agtgaaaaggaccatgctagactttccccagcatgtatcctctgacaagaagtacgac
19747

Query: 360 agcaagtacagaagcagacaaaaagactttctcgtttgatattgagatgagcatgagagg
419

113

Sbjct: 19746 agcaagtacagaaggacaaaagacttctcgatattgagatgagcatgagagg
19687

Query: 420 agatatatggagagaattgttcattacagg 451

Sbjct: 19686 agatatatggagagaattgttcattacagg 19655

Score = 222 bits (112), Expect = 6e-55

Identities = 116/117 (99%), Gaps = 1/117 (0%)

Strand = Plus / Minus

Query: 443 atttacaggaaacctgtatctgggaaagataaaaacctgaggccagacgatacttgaaa
502

582

Sbjct: 5344 attt-caggaaacctgtatctggggaaagataaaaacacctgaggccagacgatacttgaaa
5286

Query: 503 agtcaattaaaatggggaaaaagaaaatgggctccatttctgtaaaaactacagaatg 559

Sbjct: 5285 agtcaattaaaatggggaaaaagaatgggctccatttctgaacaaggtaaaaaatg 5229

Score = 208 bits (105). Expect = 1e-50

Identities = 105/105 (100%)

Strand = Plus / Minus

Query: 559 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgatttaacaaaacctc
618 |||||||

Sbjct: 2585 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgatttaacaaaacctc
2526 |||||||

Query: 619 aatgaggatgataccttccttgtatcccaaggctgaacttgg 663
|||||||

Sbjct: 2525 aatgaggatgataccttccttgtatcccaaggctgaacttgg 2481
|||||||

Score = 81.8 bits (41), Expect = 2e-12

Identities = 41/41 (100%)

Strand = Plus / Minus

Query: 1 atgatcgcccggtgcctttggctgtgcgaaggcctccgcag 41
|||||||

Sbjct: 60390 atgatcgcccggtgcctttggctgtgcgaaggcctccgcag 60350
|||||||